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RELIABILITY PREDICTION

Model : S-150 Data:2000-01-04

Style	**Part Type**	Q'ty	λ_g	π_Q	λ_{eg}	%
9.1	Resistor-Film, Insulated (RL)	46	0.003700	10	1.702000	48.797
9.1	Resistor-Film, Variable (RVC)	1	0.040000	10	0.400000	11.468
9.1	Resistor-Thermistor (RTH)	2	0.001400	10	0.028000	0.803
10.1	Capacitor-Metal, Plastic (CH)	6	0.000510	10	0.030600	0.877
10.1	Capacitor-Ceramic(Gen.) (CK)	12	0.001700	10	0.204000	5.849
10.1	Capacitor-Aluminum Dry (CE)	11	0.001300	10	0.143000	4.100
6.1	Diode-Gen. Purpose Analog	2	0.003600	8	0.057600	1.651
6.1	Diode-Switching	9	0.000940	8	0.067680	1.940
6.1	Diode-Fast Recovery Power Rectifier	2	0.023000	8	0.368000	10.551
6.1	Diode-Power Rectifier / Schottky Power	4	0.002800	8	0.089600	2.569
6.1	Diode-Voltage Ref/Reg. (Avalanche & Zener)	4	0.003300	8	0.105600	3.028
6.10	Diode-Thyristor/SCR	1	0.002500	8	0.020000	0.573
6.3	Transistor-NPN/PNP	4	0.000150	8	0.004800	0.138
6.3	Transistor-Power NPN/PNP	2	0.005700	8	0.091200	2.615
6.11	OPTO-Emitter	1	0.000470	8	0.003760	0.108
5.1	Linear Microcircuits	1	0.009500	10	0.095000	2.724
11.1	Transformer Switching	1	0.000610	3	0.001830	0.052
11.2	Coil Fixed inductor or choke	4	0.000032	3	0.000384	0.011
17.1	Single Connections-Reflow solder	299	0.000069	1	0.020631	0.591
17.1	Fuses Clip-Clip Termination	2	0.000120	1	0.000240	0.007
22.1	Fuses	1	0.010000	1	0.010000	0.287
16.1	Plated Through Hole Circuit Boards	1	0.022000	2	0.044000	1.261
Total Failure rate:					3.487925	100%

- **Data Base: MIL-HDBK-217F ,Notice 2, Parts Count**
- **Env.: GB**

MTBF: 286703.41 **hrs**

Approved by: David Wang Compiled by: Kim Tseng